

SKILLERMARK et al.
Appl. No. 10/720,691
May 4, 2007

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 4, line 4, as follows:

A general object of the present invention is to increase the performance of a CDMA cellular system, especially TD-CDMA cellular systems, without requiring any changes to standard specifications or requiring additional signaling in the radio network. This object is achieved in accordance with the attached claims.

Please delete the paragraph beginning at page 4, line 9, as follows:

~~This object is achieved in accordance with the attached claims.~~

Please amend the paragraph beginning at page 4, line 11, as follows:

~~Briefly, the present invention offers selective~~ Selective interference cancellation is provided for critical-particular scenarios in CDMA based cellular systems, such as the upcoming 1.28 and 3.84 Mcps UTRA TDD standards. ~~The critical-particular scenarios are identified as include users at the cell boundary close to making a handover. The additional information~~ Information about the interferers available for these users can be used to examine if interference cancellation is required and, if so, to include these interferers in an existing joint detection (JD) algorithm.

Please delete the paragraph beginning at page 4, line 21, as follows:

~~The invention, together with further objects and advantages thereof, may best be understood by making reference to the following description taken together with the accompanying drawings, in which:~~

Please amend the paragraph beginning at page 4, line 24, as follows:

Fig. 1 is a flow chart illustrating an exemplary embodiment of the interference cancellation method ~~in accordance with the present invention; and~~

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Please amend the paragraph beginning at page 4, line 27, as follows:

Fig. 2 is a block diagram illustrating an exemplary embodiment of an interference cancellation arrangement in a mobile station ~~in accordance with the present invention.~~

Please amend the paragraph beginning at page 7, line 21, as follows:

Fig. 1 is a flow chart illustrating an exemplary embodiment of the interference cancellation method ~~in accordance with the present invention.~~ For the handover preparation the MS receives from the UTRAN a list of cells, which the MS shall monitor in its idle timeslots. The following procedure is performed for each cell in the list using the same frequency band as the mobile station. In step S1 the MS listens to the SCH of the cell (each cell has one SCH). From each SCH the MS finds possible scrambling and basic midamble codes of the cell (step S2). In step S3 the MS finds the P-CCPCH from the SCH. Step S4 determines the actual scrambling codes and midamble sequence from the P-CCPCH.

Please amend the paragraph beginning at page 9, line 30, as follows:

Fig. 2 is a block diagram illustrating an exemplary embodiment of an interference cancellation arrangement in a mobile station ~~in accordance with the present invention.~~ In order to facilitate the description, only elements necessary to explain the interference cancellation have been included in the figure.

Please amend the paragraph beginning at page 13, line 4, as follows:

~~Although the present invention has been described~~ description has been with reference to TD-CDMA cellular systems in accordance with certain standards, it is appreciated that the same principles may be used in CDMA systems in general (both TDD and FDD, i.e. system in which the uplink and downlink are separated either in time or in frequency).